

PRIORITY**SECRET**

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1967 NOV 2 20 23Z

P 022005Z NOV 67

FM NPIC WASHDC

TO RUCSAAA/SAC OFFUTT AFB OMAHA NEB

RUCVAAA/4080 STRAT WG OL 19 BARKSDALE AFB LA

RUCVAAA/2D RTS BARKSDALE AFB LA

RUEPJS/DIA WASHDC

RUCIJRA/NAVRECONTECHSUPPCEN SUITLAND MD

RUWBKNA/15TH AF MARCH AFB RIVERSIDE CALIF

RUCVAAA/2 AF BARKSDALE AFB LA

INFO RUEPIA/CIA WASHDC

BT

SECRET CITE NPIC 2155.

AFRDR, ATTN: [REDACTED]

15TH (FOR DI); SAC (FOR GLASS LAMP, DOCR, DM4); 2D AF (FOR DI).
FROM NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER.1. CAMERA SYSTEM 1113, UNIT THREE, WAS USED ON AN H-TEST MISSION
FLOWN 19 OCTOBER 1967.

2. ORIGINAL NEGATIVE:

A. THE ENTIRE MISSION UTILIZED A SHUTTER SPEED OF 80 INCHES
PER SECOND. THE DENSITY IS MEDIUM TO HEAVY THROUGHOUT AND THE
BASE FOG IS HIGH. THE GRID DOTS AND OTHER DENSE IMAGES APPEAR
FLARED.B. IMAGE SMEAR IS NOTED IN THE ALONG TRACK DIRECTION AND
IS ASSOCIATED WITH INCORRECT IMC. (FRAME 422). THE FORMATS ARE
SKEWED SLIGHTLY THROUGHOUT THE MISSION WHICH INDICATES THAT THE
IMC UNIT WAS OPERATING; HOWEVER, IT IS APPARENT THAT ADEQUATE
IMC WAS NOT ACHIEVED.C. PLUS AND MINUS DENSITY BANDS, ALIGNED ALONG THE MAJOR
AXIS, ARE PRESENT THROUGHOUT THE LAST HALF OF THE MISSION. THEY
ARE ONE-HALF INCH WIDE AND ARE APPARENTLY CAUSED BY AN ERRATIC
SHUTTER VELOCITY. THEY ARE MORE SEVERE WHEN THE SHUTTER TRAVELS
TOWARD THE TITLED EDGE THAN WHEN IT TRAVELS FROM THE TITLED
EDGE OF THE FILM.C. IMAGE SMEAR, WHICH IS ASSOCIATED WITH VEHICLE MANEUVERING,
IS PRESENT AT VARIOUS PORTIONS OF THE MISSION. SEVERELY SMEARED
FRAMES ARE PRESENT AT THE BEGINNING AND END OF PORTIONS OF THE
MISSION WHERE THE CAMERA REMAINED IN OPERATION WHILE THE VEHICLE
ROLLED. WHEN THE VEHICLE HELD A CONSTANT ROLL IN A TURN, THE
SMEAR IS NOT AS BAD; HOWEVER, RESOLUTION IS SOMEWHAT DEGRADED,
APPARENTLY BY IMAGE MOTION.D. THE FIDUCIAL WHICH POINTS TOWARD THE FOLLOWING FRAME IS
NOT IMAGED. MOST OF THE GRID DOTS HAVE SECONDARY, FLARE RINGS
AROUND THEM. METERING IS GOOD THROUGHOUT. DATA BLOCKS ARE
SHARPLY IMAGED WITH GOOD DENSITY.E. THE RESOLUTION IS NOT AS GOOD AS THE FIRST TEST MISSION.
THE HEAVY DENSITY OF THE ORIGINAL NEGATIVE AND THE LACK OF IMC
ARE PROBABLY THE MAJOR CAUSES OF THE LOSS IN RESOLUTION. THE
BEST RESOLUTION IS ESTIMATED TO BE 14 INCHES (BAR PLUS SPACE)
ON NEAR VERTICAL ACQUISITIONS. IT IS ALSO NOTED THAT MOST OF
THE MISSION IS EXPOSED USING HIGH OBLIQUITY ANGLES. DOUBLE
IMAGERY IS NOT AS APPARENT IN THESE HIGH OBLIQUES AS IT HAS
BEEN ON PREVIOUS MISSIONS.F. NO PILOT INFORMATION OR GROUND TRACK WAS FURNISHED FOR
THIS EVALUATION. IT WAS THEREFORE IMPOSSIBLE TO CONSIDER SOLAR
ELEVATIONS, AZIMUTHS, ALTITUDES, AND OTHER PARAMETRIC DATA IN
THIS EVALUATION.

3. POSITIVES:

A. PRINTING AND PROCESSING APPEAR GOOD.

B. ATMOSPHERICS CAUSE LITTLE APPARENT IMAGE DEGRADATION.

GP-1

SECRET

END OF MESSAGE

SECRET

Declass Review by NGA

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GROUP 1
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